PCT

REQUEST

For receiving Office use only—
International Application No.
International Filing Date
Name of receiving Office and "PCT International Application"

· I	International Filing D	ate	
The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.	Name of receiving Off	fice and "PCT International Application"	
according to the ratent cooperation reaty.	Applicant's or agent's file reference (if desired) (12 characters maximum) 59441-PCT		
Box No. I TITLE OF INVENTION METHODS OF PRODUCING DIFFERENTIATED HEMA	TOPOIETIC CELLS	FOR TREATMENT OF CYTOPENIA	
Box No. II APPLICANT This person	on is also inventor		
Name and address: (Family name followed by given name; for a legal entit The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residen	he address indicated in this	Telephone No.	
Roger Williams Medical Center 825 Chalkstone Avenue Providence, Rhode Island 02908	Facsimile No.		
		Teleprinter No.	
		Applicant's registration No. with the Office	
State (that is, country) of nationality:	State (that is, country	y) of residence:	
This person is applicant for the purposes of: All designated States except the United States of America only the Supplemental Box			
Box No. III FURTHER APPLICANT(S) AND/OR (FU	RTHER) INVENTO	R(S)	
Name and address: (Family name followed by given name; for a legal entity. The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of resident QUESENBERRY, Peter J. 400 Cole Avenue Providence, Rhode Island 02906	e address indicated in this	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office	
State (that is, country) of nationality: US	State (that is, country US	y) of residence:	
This person is applicant for the purposes of: all designated the United States all designated the United States		the United States of America only the States indicated in the Supplemental Box	
Further applicants and/or (further) inventors are indicated on a continuation sheet.			
Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE			
The person identified below is hereby/has been appointed to act the applicant(s) before the competent International Authorities	t on behalf of as:	agent common representative	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.) Telephone No. 617.439.4444			
ROSENFIELD, Jennifer K. EDWARDS & ANGELL, LLP P.O. Box 55874 Boston, MA 02205		Facsimile No. 617.439.4170 / 7748	
,		Teleprinter No.	
		Agent's registration No. with the Office 53,531	
Address for correspondence: Mark this check-box when the space above is used instead to indicate a special address.	re no agent or common	representative is/has been appointed and dence should be sent.	

Supplemental Box If the Supplemental Box is not used, this sheet should not be included in the request.

- If, in any of the Boxes, except Boxes Nos VIII(i) to (v) for which a special continuation box is provided, the space is insufficient to furnish all the information: in such case, write "Continuation of Box No...." (indicate the number of the Box) and furnish the information in the same manner as required according to the captions of the Box in which the space was insufficient, in particular.
- (i) if more than two persons are to be indicated as applicants and/or inventors and no "continuation sheet" is available: in such case, write "Continuation of Box No. III" and indicate for each additional person the same type of information as required in Box No. III. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below;
- (ii) if, in Box No. II or in any of the sub-boxes of Box No. III, the indication "the States indicated in the Supplemental Box" is checked: in such case, write "Continuation of Box No. III" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the applicant(s) involved and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is applicant;
- (iii) if, in Box No. II or in any of the sub-boxes of Box No. III, the inventor or the inventor/applicant is not inventor for the purposes of all designated States or for the purposes of the United States of America: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Box No. III" or "Continuation of Box No. III" or be, indicate the name of the inventor(s) and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is inventor;
- (iv) if, in addition to the agent(s) indicated in Box No. IV, there are further agents: in such case, write "Continuation of Box No. IV" and indicate for each further agent the same type of information as required in Box No. IV;
- if, in Box No. VI, there are more than three earlier (v) applications whose priority is claimed: in such case, write "Continuation of Box No. VI" and indicate for each additional earlier application the same type of information as required in Box VI.
- If the applicant intends to make an indication of the wish that the international application be treated, in certain designated States, as an application for a patent of addition, certificate of addition, inventor's certificate of addition or utility certificate of addition: in such a case, write the name or two-letter code of each designated State concerned and the indication "patent of addition," "certificate of addition," "inventor's certificate of addition," the number of the parent application or parent patent or other patent grant and the date of grant of the parent application (Rules 4.11(a)(iii) and 49bis.1(a) or (b)).
- If the applicant intends to make an indication of the wish that the international application be treated, in the United States of America, as a continuation or continuation-in-part of an earlier application: in such a case, write "United States of America" or "US" and the indication "continuation" or "continuation-in-part" and the number and the filing date of the parent application (Rules 4.11(a)(iv) and 49.bis.1(d)).

Continuation of Box IV:

CONLIN, David G. NEUNER, George BUCKLEY, Linda M. CORLESS, Peter F. MANUS, Peter J. DALEY, Jr., William J. BUCHANAN, Robert L. O'DAY, Christine C. HAZZARD, Lisa S. TUCKER, David A. HARTNELL III, George W. ALEXANDER, John B. JENSEN, Steven M. PIFFAT, Kathryn A. ROOS, Richard J. MANSO, Peter J. REES, Dianne M. GITTEN, Howard M. PENNY, Jr., John J. KONIECZNY, J. Mark ROSENFIELD, Jennifer K. BUTLER, Gregory B. KRAMER, Barry WOFSY, Scott D. CHACLAS, George N. NEWMAN, Richard H. SILVIA, David J. HEUSCH, Marina I. LAURO, Peter C. KITCHELL, Barbara HSI, Jeffrey D. MAKARY, Meghan M.

The above attorneys are all members of the firm: EDWARDS & ANGELL, LLP P.O. Box 55874
Boston, Massachusetts 02205

Sheet No. ...3....

Box No.V DESIGNATIONS			•	
The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents.				
However,				
	designated for any kind of na			
	ea is not designated for any k			
	on is not designated for any l			
(The check-boxes above effect, under the national to the consequences of st	may be used to exclude (irrev l law, of an earlier national a uch national law provisions in	vocably) the designations pplication from which pr these and certain other	s concerned in order to iority is claimed. See th States.)	avoid the ceasing of the he Notes to Box No. V as
Box No. VI PRIORITY	CLAIM			
The priority of the follow	ving earlier application(s) is h	ereby claimed:		
Filing date	Number	W	here earlier application	is:
of earler application (day/month/year)	of earlier application	national application: country or Member	regional application:* regional Office	international application: receiving Office
item (1) 6 July 2003 (06.07.03)	60/485,509	US		
item (2)	00/405 007	LIC.		
7 July 2003 (07.07.03)	60/485,607	US		
item (3)	·			
Further priority clair	ns are indicated in the Supple	emental Box.		
The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of this international application is the receiving Office) identified above as:				
all items item (1) item (2) other, see Supplemental Box				
* Where the earlier application is an ARIPO application, indicate at least one country party to the Paris Convention for the Protection of Industrial Property or one Member of the World Trade Organization for which that earlier application was filed (Rule 4.10(b)(ii)):				
Box No. VII INTER	NATIONAL SEARCHING	AUTHORITY		
Choice of International Searching Authority (ISA) (if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used):				
ISA/ US				
Request to use results of earlier search; reference to that search (if an earlier search has been carried out by or requested from the International Searching Authority):				
Date (day/month/year) Number Country (or regional Office)				
Box No. VIII DECLARATIONS				
The following declarations are contained in Boxes Nos. VIII (i) to (v) (mark the applicable check-boxes below and indicate in the right column the number of each type of declaration): Number of declarations				
Box No. VIII (i)	Box No. VIII (i) Declaration as to the identity of the inventor :			: .
Box No. VIII (ii)	Declaration as to the app filing date, to apply for a	licant's entitlement, as at and be granted a patent	t the international	:
Box No. VIII (iii)				:
Box No. VIII (iv) Declaration of inventorship (only for the purposes of the designation of the United States of America):				
Box No. VIII (v) Declaration as to non-prejudicial disclosures or exceptions to lack of novelty:				

Sheet No.	4
Sheet No	7

Box No. IX CHECK LIST; LANGUAGE OF FILING				
This international application contains: (a) in paper form, the following number of sheets:	This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):	Number of items		
request (including	1. A fee calculation sheet	: '		
declaration sheets) : 4	2. original separate power of attorney	:		
description (excluding sequence listing and/or	3. original general power of attorney	:		
sequence listing and/or tables related thereto) : 13	4. copy of general power of attorney; reference number, if any:	:		
claims : 4	5. statement explaining lack of signature	:		
abstract : 1	6. priority document(s) identified in Box No. VI as	-		
drawings : 6	item(s):	: .		
Sub-total number of sheets 28 sequence listing :	7. translation of international application into (language):	:		
tables related thereto : (for both, actual number	8. separate indications concerning deposited microorganism or other biological material	:		
of sheets if filed in paper form, whether or not also	9. sequence listing in computer readable form (indicate type and number of carriers)			
filed in computer readable form; see (c)	(i) ☐ copy submitted for the purposes of international search under Rule 13 <i>ter</i> only (and not as part of the international application	on) :		
Total number of sheets : 28 (b) only in computer readable form	(ii) ☐ (only where check-box (b)(i) or (c)(i) is marked in left column) e .		
(Section 801(a)(i)) (i) sequence listing	purposes of international search under Rule 13ter in together with relevant statement as to the identity of the copy			
(ii) ☐ tables related thereto	or copies with the sequence listing mentioned in left column tables in computer readable form related to sequence listing	٠		
(c) ☐ also in computer readable form (Section 801(a)(ii)) (i) ☐ sequence listing	(indicate type and number of carriers) (i) copy submitted for the purposes of international search under Section 802(b-quater) only (and not as part of the internation	al		
(ii) tables related thereto	application)	•		
Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are contained the	(ii) (only where check-box (b)(ii) or (c)(ii) is marked in leading to column) additional copies including, where applicable, to copy for the purposes of international search under Section 802(b-quater)	eft he on		
on which are contained the	(iii) ☐ together with relevant statement as to the identity of the copy	-		
tables related thereto:	or copies with the tables mentioned in left column	:		
(additional copies to be indicated under items 9(ii) and/or 10(ii), in right column)	11.	•		
Figure of the drawings which should accompany the abstract:	Language of filing of the international application:			
BOX NO X SIGNATURE OF APPLICANT.	AGENT OR COMMON REPRESENTATIVE	-		
Next to each signature, indicate the name of the person sign	ing and the capacity in which the person signs (if such capacity is not obvious from reading t	he request).		
Jennife K. Rosenfield, Reg. No. 53,531 July 6, 2004 Date				
For receiving Office use only				
Date of actual receipt of the purported international application:	2. Drav			
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:				
Date of timely receipt of the required corrections under PCT Article 11(2):	not	received:		
5. International Searching Authority (if two or more are competent): ISA/	6. Transmittal of search copy delayed until search fee is paid			
For International Bureau use only ————————————————————————————————————				
Date of receipt of the record copy by the International Bureau:				

This sheet is not part of and does not count as a sheet of the international application.

PCT	For receiving Office use only —
FEE CALCULATION SHEET Annex to the Request	International Application No.
Applicant's or agent's file reference 59441-PCT	Date stamp of the receiving Office
Applicant Roger Williams Medical Center	
CALCULATION OF PRESCRIBED FEES	
1. TRANSMITTAL FEE	300.00 T
2. SEARCH FEE International search to be carried out by (If two or more International Searching Authorities are compute international search, indicate the name of the Authority carry out the international search.)	petent to carry out
 INTERNATIONAL FILING FEE Where item (b) and/or (c) of Box No. IX apply, enter Sub-tota Where item (b) and (c) of Box No. IX do not apply, enter Tota 	I number of sheets
il first 30 sheets	1,134.00 il
number of sheets in excess of 30 x 12.00 =	0.00[i2]
additional component (only if sequence listing and/or tab thereto are filed in computer readable form under Section or both in that form and on paper, under Section 801(a)(ii)	oles related a 801(a)(i),):
$400 \text{ x} \underline{\qquad} = \underline{\qquad}$	i3
Add amounts entered at i1, i2 and i3 and enter total at I	1,134.00 I
(Applicants from certain States are entitled to a reduction international filing fee. Where the applicant is (or all applicant)	n of 75% of the ats are) so entitled,
4. FEE FOR PRIORITY DOCUMENT (if applicable)	40.00 P
5. TOTAL FEES PAYABLE	7AL box TOTAL
MODE OF PAYMENT	
authorization to charge deposit account (see below) postal money order	☐ cash ☐ coupons
☐ bank draft	revenue stamps other (specify):
AUTHORIZATION TO CHARGE (OR CREDIT) DEPOSIT A (This mode of payment may not be available at all receiving Office	Receiving Office: US
Authorization to charge the total fees indicated above.	Deposit Account No.: 04-1105 Date: 6 July 2004
(This check-box may be marked only if the conditions for deposition accounts of the receiving Office so permit) Authorization to checked deficiency or credit any overpayment in the total fees indicated	osit Darge any Manufer K Perenfield Per No. 53 531
Authorization to charge the fee for priority document.	Signature:
DOMMO(101 (1) (1) 000 (1)	

Form PCT/RO/101 (Annex) (January 2004) LegalStar 2004, Form PCTREQ

See Notes to the fee calculation sheet